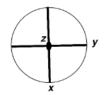
Exam practice questions

- 1. In a 2D crystal, what is the relationship between basis vectors of 'oc' lattice to the primitive lattice?
- 2. For 60° rotation about X₃, derive the relation between electrical conductivity tensor in the new and original axis.
- 3. Does the point group below support ferroelectricity?



4. For a tetragonal crystal with length along [101], assuming principal resistivity values are known, derive the resistivity along the length. State all variables. What information about the lattice is needed to fully solve this problem?